

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 16:57:22 ON 24 JUL 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 24 Jul 2007 VOL 147 ISS 5

FILE LAST UPDATED: 23 Jul 2007 (20070723/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 117

L6	1	SEA FILE=REGISTRY	ABB=ON	PLU=ON	ALLYL CHLORIDE/CN
L7	1	SEA FILE=REGISTRY	ABB=ON	PLU=ON	"1,2-EPOXY-3-CHLOROPROPANE"/C N
L8	4114	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	L6 (L) RACT+NT/RL
L9	2442	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	L7 (L) PREP+NT/RL
L10	172	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	L8 AND L9
L12	39677	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	PEROXIDES+PFT,NT/CT (L) RACT+NT/ RL
L13	64	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	L10 AND L12
L15	39697	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	"ZEOLITES (SYNTHETIC)" +PFT,NT/ CT (L) CAT+NT/RL
L17	32	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	L15 AND L13

=> d 117 ibib abs hitstr tot

L17 ANSWER 1 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:81341 HCAPLUS Full-text

DOCUMENT NUMBER: 146:338204

TITLE: Highly efficient and selective production of epichlorohydrin through epoxidation of allyl chloride with hydrogen peroxide over Ti-MWW catalysts

AUTHOR(S): Wang, Lingling; Liu, Yueming; Xie, Wei; Zhang, Haijiao; Wu, Haihong; Jiang, Yongwen; He, Mingyuan; Wu, Peng

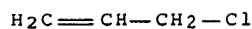
CORPORATE SOURCE: Shanghai Key Laboratory of Green Chemistry and Chemical Processes, Department of Chemistry, East China Normal University, Shanghai, 200062, Peop. Rep. China

SOURCE: Journal of Catalysis (2007), 246(1), 205-214  
CODEN: JCTLA5; ISSN: 0021-9517

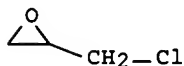
PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English



IT 106-89-8P, Epichlorohydrin, preparation  
 RL: PREP (Preparation)  
 (manufacture of, by allyl chloride epoxidn., titanium-containing silicalite catalysts for)  
 RN 106-89-8 HCAPLUS  
 CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



IT 7722-84-1, Hydrogen peroxide, reactions  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (olefin epoxidn. and aromatic hydrocarbon hydroxylation by, titanium-containing silicalite catalysts for)  
 RN 7722-84-1 HCAPLUS  
 CN Hydrogen peroxide (H2O2) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 16:48:02 ON 24 JUL 2007)

FILE 'CAPLUS' ENTERED AT 16:48:07 ON 24 JUL 2007  
 E US2005-534502/APPS

L1 1 S E3  
 SEL RN

FILE 'REGISTRY' ENTERED AT 16:48:32 ON 24 JUL 2007  
 L2 6 S E1-6

FILE 'CASREACT' ENTERED AT 16:49:10 ON 24 JUL 2007  
 L3 STR  
 L4 1 S L3  
 L5 35 S L3 FUL

FILE 'REGISTRY' ENTERED AT 16:52:40 ON 24 JUL 2007  
 L6 1 S ALLYL CHLORIDE/CN  
 E 1,2-EPOXY-3-CHLOROPROPANE/CN  
 L7 1 S E3

FILE 'HCAPLUS' ENTERED AT 16:53:13 ON 24 JUL 2007  
 L8 4114 S L6(L) RACT+NT/RL

L9 2442 S L7(L) PREP+NT/RL  
 L10 172 S L8 AND L9  
       E PEROXIDES/CT  
 L11 189635 S PEROXIDES+PFT,NT/CT  
 L12 39677 S PEROXIDES+PFT,NT/CT(L) RACT+NT/RL  
 L13 64 S L10 AND L12

FILE 'CAPLUS' ENTERED AT 16:54:33 ON 24 JUL 2007

FILE 'HCAPLUS' ENTERED AT 16:54:34 ON 24 JUL 2007

L14 61 S L13 AND (CAT/RL OR CATAL?)  
       E ZEOLITES/CT  
       E E3+ALL  
       E E2+ALL  
 L15 39697 S "ZEOLITES (SYNTHETIC)"+PFT,NT/CT(L) CAT+NT/RL  
 L16 1 S L15 AND L1  
 L17 32 S L15 AND L13  
 L18 1 S L1 AND L17

FILE 'HCAPLUS' ENTERED AT 16:57:22 ON 24 JUL 2007

=> fil casreact

FILE 'CASREACT' ENTERED AT 16:59:39 ON 24 JUL 2007

USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
 COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1840 - 21 Jul 2007 VOL 147 ISS 5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

\*\*\*\*\*  
 \*  
 \* CASREACT now has more than 12 million reactions \*  
 \*  
 \*\*\*\*\*

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l5 not l17

'RL' IS NOT A VALID FIELD CODE

RELATIONSHIP 'PFT,NT' IGNORED

RELATIONSHIPS DO NOT EXIST FOR FIELD 'CT'

RELATIONSHIP 'PFT,NT' IGNORED

RELATIONSHIPS DO NOT EXIST FOR FIELD 'CT'

761 "ZEOLITES (SYNTHETIC)"+PFT,NT/CT (1 TERM)

0 CAT+NT/RL

0 "ZEOLITES (SYNTHETIC)"+PFT,NT/CT(L) CAT+NT/RL

1476 L6

0 RACT+NT/RL

0 L6(L) RACT+NT/RL

2101 L7  
 0 PREP+NT/RL  
 0 L7(L) PREP+NT/RL  
 740 PEROXIDES+PFT,NT/CT (1 TERM)  
 0 RACT+NT/RL  
 0 PEROXIDES+PFT,NT/CT(L) RACT+NT/RL  
 L19 35 L5 NOT L17

=> dup rem l5 l17

FILE 'CASREACT' ENTERED AT 16:59:58 ON 24 JUL 2007  
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
 COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'HCAPLUS' ENTERED AT 16:59:58 ON 24 JUL 2007  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
 COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)  
 PROCESSING COMPLETED FOR L5  
 PROCESSING COMPLETED FOR L17  
 L20 58 DUP REM L5 L17 (9 DUPLICATES REMOVED)  
 ANSWERS '1-35' FROM FILE CASREACT  
 ANSWERS '36-58' FROM FILE HCAPLUS

=> dup rem l17 l5

PROCESSING COMPLETED FOR L17  
 PROCESSING COMPLETED FOR L5  
 L21 58 DUP REM L17 L5 (9 DUPLICATES REMOVED)  
 ANSWERS '1-32' FROM FILE HCAPLUS  
 ANSWERS '33-58' FROM FILE CASREACT

=> d l21 ibib abs crd 33-58

L21 ANSWER 33 OF 58 CASREACT COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 146:251725 CASREACT Full-text  
 TITLE: Process for preparation of (chloromethyl)oxirane by  
 epoxidation  
 INVENTOR(S): Xi, Zuwei; Li, Jian; Gao, Shuang  
 PATENT ASSIGNEE(S): Dalian Institute of Chemical Physics, Chinese Academy  
 of Sciences, Peop. Rep. China  
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 7pp.  
 CODEN: CNXXEV  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Chinese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1900071	A	20070124	CN 2005-10012240	20050721
PRIORITY APPLN. INFO.:			CN 2005-10012240	20050721
AB The title method includes oxidizing allyl chloride using hydrogen peroxide water solution as oxygen source and tungstophosphoric heteropolyacid salt or molybdophosphoric heteropolyacid salt as catalyst at 40-90 °C under solvent-free condition for 1-5 h to obtain the final product, wherein the catalyst/hydrogen peroxide weight ratio is 0.1-1.2, and the hydrogen peroxide/allyl chloride weight ratio is 0.02-0.2 (hydrogen peroxide concentration is calculated by 100%). This invention has the advantages of high product yield, single product, good selectivity, and no pollution on environment, and is suitable for large-scale production				